lingineering and Research hafino

26. October 1910

Office. Chief Signal Officer of the Army

Chief Signal Officer, American D. F.

Cipher Frinting Colograpia

- i. Attention to invited to the attented report of Colonel W. K. Wilson, Semeral Staff, approved by the Chief of Staff, which directs the Chief Signal Officer to make dertain installations of the Cipher Printing Telegraph in France and England. Colonel Tilson's report, in fee-cisile, is attached as Exhibit A.
- 2. It is thought that the various exhibits attached heroto will tell the whole story of the operation of the apparatus, its applicability to existing circults and operatus, and the desirebility of its being brought into use as sapidly and as widely as possible.
- in Transmitting Estrages in Cipror" in Colonel Vilson's seport sots forth the procedure in handling cipler messages very clearable of the forth the procedure in handling cipler messages very clearably with the possible esception of the method of recording them at the receiving end. A machine-perference which perforates a tape instead of printing the received signals is necessary. This machine-perference makes an exact deplicate of the tape passed through the transmitter at the other end of the line. It is impossible to print the recoived engineered eigenly because the printer functions, such as the certific return. Line feed, etc., do not appear properly until the received tape is combined with the key-tapes on a local set.
 - for colling the installations recommended by the Chief of Staff with the losst possible delay. These installations will comprise:
 - a. Lordon: 4 chalves with machine-perferators for the line operating tables and 2 spare machine-perferators for working dipher on one channel of each of 2

circuits to Earls. Six local area.

b. Foris: 10 shelves for line operating tables and 5 spare machine-perforators for verking olyher on one channel of each of 3 circuits to lendon, on each of 2 circuits to Teure, and on one circuit to H A E F. Ten local sets.

c. fours: 6 sholves for line operating tables and 3 spare machine-perforators for verting eigher on one channel of 2 directs to Paris and one directs to HADF. Six local note.

d. R. J. B. P.: 4 shelves for line operating tables and 2 space suchine-perforators for working eigher on one channel of the circuit to Peris and one channel of the circuit to Peris and one channel of the circuit to Peris. Bight local sets.

- S. Cipher say thus be worked over one channel of each of a circulta from london to Paris; ever one channel of each of two circults from Paris to Topra; over one channel from H. A. E. F. to Pours.
- 6. Stops are also being taken to have the necessary persound! trained in the openial knowledge required for the Cipher Frinter operation by the time the apparatus is ready for installation.
- To The whole matter of making the overseen installations will be expedited as much as possible and the Chief Signal Officer, American Expeditionary Forces, will be kept informed of the progress of the work. It is expected that it will take at least three months to excure apparatus for the installation outlined.

by direction of the acting Chief Signal Officer.

J. O. Marborgue. Lt. Col., Signal Corps.

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